

What is Claimed is:

1. A scanner, comprising:

a LED lamp set which includes at least one LED lamp to serve as a light source;

5 a transparent plate having one side corresponding to the LED lamp set and other side corresponding to an object to be scanned, light emitted from the LED lamp set passing through the transparent plate to project onto the scanning object;

a reflection mirror set which includes at least one reflection mirror for receiving a light reflecting from the object to be scanned , where the light is emitted from the LED lamp set, and which reflects and focuses the light; and

10 an image sensor for receiving the light reflected from the reflection mirror set and transforming received optical signals to analog signals for outputting.

2. The scanner of claim 1, wherein the image sensor comprises a charge-coupled device.

3. The scanner of claim 1 further having at least one rod lens close to the LED lamp set at a desired location to refract and focus the light emitted from the LED lamp set.

15 4. The scanner of claim 1 further having at least one reflection surface close to the LED lamp set at a desired location to reflect and focus the light scattered from the LED lamp set.

5. The scanner of claim 1 further having at least one BEF(brightness enhancement film) close to the LED lamp set at a desired location to focus the light emitted from the LED lamp set.

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6. The scanner of claim 1 further having at least one diffuser close to the LED lamp set at a desired location to focus the light emitted from the LED lamp set.